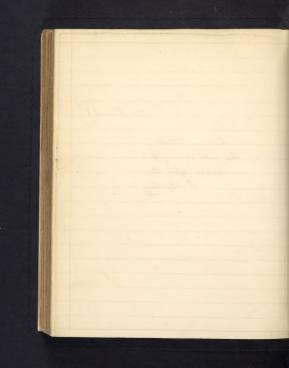
Paper Maris 8th 1896 Lacturarium the Inspipated Juice of the Lacture Saliva, 6. Stanbery



In augural Lipertation Sactuarium, the inspifeated juice of the Lactura dativa. Edward Stanbery Jamesville, Chie.

the same of the sa

I shall commone this subject by a belanical surjetion of the gener of plants, to which the believe from M. Tutoli

dang.

Lachen a genes of the Syngonista. Mg. sales Tely gamia dals and order. Natural order & Composita Some flosou losa. Esential character: cally imbricate, cylindrical, with a membranacion margin; reasplace naked: Leeds wen, with a imple stipetate down. There are deven species, & which, the Lactuca Sation, the common garden lettuce, with its several varieties are to well known to need a particular dwengton The genus of plants to which the Lettuce belongs, is almost exclusively European. These on however a few exceptions. The Lactura Lonufolia and some is thought by Ma Valate an hardly been considered a natural group, but rather a section of Souchus.

the state of the s

To what part of the world, the Lacture Salina may be considered as indigenous, it very uncers tain, but as far as I am able to assertain, it Mourished Equally well in each quarter of the globe. It is cultivated in our gardens, for our livary purposes. The plant when about six inched high is known by the name sallads and is much used in this Country as a green in May and June. It has been considered healthy, although it is remarked by all those. who are in the habit of eating it, that it produces drowsines or a tendency to sleep this is owing to the milky juice, which abounds in every part of the plant. It is this price that will form the subject of the following

The Milk of Lettuce (as it is commonly collect) when it first evides, is about the colow and consistence of cream; when proped



between the fengers, has a gumany resis now feeling, sticking the fingers togeather + w, it taste is intensely bitter and in that are peet sourcely distinguishables from the common poppy of this country. When suffered to remain on the statte, or placed on a pieces of glass in the sun. it assumes a bright making any colour alfroaching that of Opino - To this Open like substance, Dr Danoan; it is daid, has given the mane of Lactucarium To be Luncan is the credit generally averibed, of first introducing this artide to the general notice of the profession as a substitute for Opening but this is not the fact. It is well known, that Profesor love of this University, austitus ted a Levies of Comparative Experiments" and detailed there in the fourth volume

mefred decreedy with

of the American Philosophical Frankrokin bounty five years ago. Whereas the first pranotion of to surround on this subject was written in 1810. In this Epay, he you not mention a word of Broggion born experiments, but sicanly and ihamerculy under ours to obtain the wredet 1. First introducing it to notice henoulds. There is nothing that more betrange as Love un merous imit, than endene our ing to build up ones lane, by detracting ion that of others. This is the cases in the present instances, andis one among the many, that have occurred, where the English Pressionans Lave taken to themedelves discoveries, which is well known were bush introduced in this country. Is had wind allracted the alle time in the Payseonay the curope and sunstitute is to



and in reniments have been initiated in the report of otherwise it is so to it was His, not its left up a the com our l'im . i'r this para the latelle was it is buttered worth is theo Instite instina on the bet alt she NI reprod i metal in the factor. 1. accition. " I the best mether of behavina a siterijie Meni ir . fime the water sald wie to the in none bardon veltuse. La consemune thed. In distaqueined the est nat fariends. A Conderson at to whin ma . l' berrie at hair, bur smittet to the could, excellent if weeks the action Grown and their methed K junharing it The waterent of the me de a lingarino de un un elle I wars. It the same line and



place, alt is dunion read to the stone werete a defectation entitled, " Ferrer bead on a preheration is a voterino Medicini from common hardende there . . as polioners is the method by which he irrours it " allowed the pounts above the in number; to thout we, till the lot of the stem. was about a con above the surpos i the around. I have out of an in africa the bot y ruch. I'm methe puice immediately began to inc. above the wounded and see . Therein there of a white whetevans, it had me is don timed a block or task out is ed incimitation, over the surface win the item was out of tend it unh feeble is activate this by . " ping, as it is a we with the reday



in cata in a the acto pro I all interprener to firmy from Ther fire our gir with a d'institute, to now of the order observed them like culstance as head. This were thread it a wide montred teal, ale is rack felled with weate specit of wine to Nachol Situliane of the Counter to Brannacipoea, Comed a round parts of notified spe it aid nater. isy this ministrum. the wrote clasic mered alon in in there it is the stack can die since and the epoli as may be in art an raid bearned both the solow and 'ach ! the black warmlations. Each i my parts in any new of the fred words. splitted by the removal of the thin ergs since if in



ed a fresh increestation very day . And by the ming these into a seal . I some office at about I moderal to lea suler ted selection from the weed his the letter, or rather the milky juin in its is intes stat. It as the straine of be spe I the pare rotation from the thin stars gother stable. " this strained spends, wheel and many the appearance went lath of the ordinary ince nomen of the steeps I have wien the name a odulis quireluces duce que pati sicolare. from experiments on this solution to not if the opening, that it was a percesped sopre upio, but in vair to obtain it in a sure one cantralid form, and when he muld administ to it with more certainly arte the dese, to waponalis the debalier, and a residence was light, which had many of the characteristic home las of the sur ling Ofenemore A new mothers of collecting the radionine



as incurred to his the it as just it . ill's writter to nime to I form a in tothe I ony dy in a Chan his men, ... bij and the one with the sile this that instead ; supir to the condition, to remain on the Halk until it had required the dark clour frum, he umound it as it is it estable o immediately afterwards, by the wish lien to a ruce it were walten, is wind has die ween better, a piece of spine. I have the spare was completely impre, nated, he wished it not in clean warme water and a rooted we on the sum. in this manner he was enbed to collect as much in one day is he an It in five, when the exudation was not a mered, until it had acquired a dry state. to had the little sounded in weer and and to the bis a a week real from he be we in pollowing method is wollection



in a would i he' Betart a bome to judon'. It is subushed in a note in Peris. Prasmactiona, and is considered by tilatas I the orige one, by which the write wan be how hat the market ara reasonatio inc. I have to los dellar planted aten' in 1st mehrs asunder in rous, between which there is sufricient a frace to enable levens to pais wir and down without in in the pounts. a commence my operations, at before the prount is about to flower by sulling i as wet to the stene; to milk juice immediable co whis and is collected on theen of were willen, d. I hute a ward square . At seen as this becomes cherred, it is threen from line to line in a cor al containing a small quantity of unter, wich infriently iminunaled it is unperaled at the ammon humahir is the almost here, by winder in a number of stallers will



The dachiearum in a en sours is some advering to the again in the firm to an estra cor, but differing som own of is in all its densitie properties: this method matted me to collect Luclusarium with great pacity and dispatch bur is still attended with a wideralle 15 were, as the webotion of milky precuet is neseriarly were small and the wice to the medicine consequently but, and therefore not within the reach of coneral vaction. Visi consideration led one to marie hart's a wriments, for the lar we de assertainino whether an Eglrast mucht not be oblained was the plant posting all the perfecties of suctionarum when administered in larger doses, and which could be introduced it a comparation trefting cost. In prosecuting this newsers nd that the plants centain mist of the milling juice, when they have flowered and the leaves



se beginning to agreeme a getter her, and I sweet that when our down, the milky ince in the most part is a somer le fire, his subsided in the both of the still and the old le ver, a sir un store who he nower. it for the outreme betterness of these . was naturally led from these aircumstances, , where the whove period for my operations, and I belock those parts only on the plant o my extract rejecting the substance of the stalk, and the young sprouts. My me thed of procuring the extract is as sollows. I first macerate the parts in water, for twenty four hours, and then boil them or two, after which I allow the clear devoction to draw through a sieve, evilhout wing any prepure; this then is wa toraled w har as it can be done with safety, and the process is finished in shallow dishes



is the manner above described for obtaining Instructione. This extract which I have wall A lastractum xustucas Concentratura is or were les powerful than Lachecarium, had is hoseless all the properties in larger doses, and it has here found Equally useful, in a number and variety of outes, and is not more than the sexth part of the price." The sucous Spefatus a actuca dution of the shors, much of necessity be almost inest, ina it is commonly prepared of that pino, when the pla is contains none or very lettle of to juin; and ever if the letters be employed at a more mature, sendore, it must still fail I offerd an extract of any atrem the, as it is merely the expressed wice, and that too of the whole plant indi, oriminality, and will be found to contain a very minute proportion of Lacticarium, the great butt bein nothing



at than i reinted over ine! I would to volleit the xactucorsum as willed by Mr. Young, lat found I laboured under one or two disadvantages not mentione by him. It's I incarriably found , that all , laving out oft the tops of a white was and various returned to collect it, in had exuded to rapedly and was to legard, that a mate hart had dropped off, baving but a small portion on the stalk; in that i was oblied to abily the witter or spice immedia stely on having out off the top, which was the it very tedious and laborious. 2nd That is was with great definantly; a could proour any quantity, owing to the smallness of the drops, being obliged to out the staths very near to the tips, where of course they we very elender, as there would be scassely my exudation, were the tops to be said off



it lies to the think and in a se time c'actionte de se possed tot i' i be tound at I'm i sindiens. I went! invery be able to other a day west were til is me wer morte, with minut to anoft a new method welmber Lemant that q . Mr Proberts. Har is de red that me Home my moderns in the menus actively 1. Your, that the lacturers in withet prin whall in the extense or costant porto. the plant, i' so un to marin, moders co. Time hast unite about an a now the great and writinged them at as a war to with with . It wis indian a las a day exacted and it ime place similar in a streem a wind in up it with as it can ded with a spenje wither and it - inwas deritesti ingire naled were sed it in when warm water and to wited in the



in the it a much so point him all monative of a con a belove and townsted it. in this menner of hour to a defaitly in prosuring as much as a much -

2" am a contrate Pre revalund. 1. solutio succi opiniali a actiona, mina a from the inspecialed ince . I alone well exadin. In the plant when a constact.

2. zuchwartum - an extract propaced by univain la da dela.

Princhere sechearie irena I dil illing both carrier is prost spore & win to the . me proportions as in orming the Commen land vandanum ! the 4. 10000 streaks received ration the a present in the set mensus & the

were spirate to the Sand me time yo

we not been win the week, but weeks



the from of Bills and signers.

to instance Soliceum Process of the villa. from the leaves of the trick plant, by wearns of special special.

A Extraction a notice the old traces and lake if the statte in water, for twenty four hours and lake if the statte in water, for twenty four hours and then there for two, ofter which the class ar according to allowed to drain through a second without wing any prepare, this is we proved as for as it sam he done with represent and the proof is forwished in statuter with sufficient and the proof is forwished in statuter with a such as the proof is forwished in statuter with a such as the news new above described on obtaining another our cutton.

in Generalist the pergoing preparations are in farth taken propers the interior andhorion and house forwardly intelled it with presion



was in many seems where the common same was strongly indicated.

· dedical history.

Ever since the days of fairs, among the umant, une employed it as a coperque in his pure sase, this article like the hapaver tomnis jours, and many other plants quelding a milling juice, have been kinewes to persejo a power of enducing election but for a long time. although constantly cultivated as a salad, it was entirely regliated as a superfice - the Pro feller love, sa surcase was the next to pus-But it in a regular form; and as . an but a in in the praction of medicine and it are in my expe-Back suite limited, I shall be under the major in if confining myself almost exclusive to chier vations taken from his writings, in his experiments with this article, he was



ted to be in the contract of the street and toget town it and l'pumo. The was induced to use in the piace or Epitimes in Furmonary humium stow on account of the disagreeable firets widwood by the time. in I me industrals, whe from a neutrardy of one blution, cannot make use of it in any quantity, a thout pro ducing great inconvenence, conjuder of the head, vertige, Lick nels at the stomach, vomi. lay and various other distressing Lymptons. The employed it with secrets in alleviating to sough in The thusing and weed in as a sedation In many other diseases and run to Efecune in found no article so beneficial as Ladianium it induces stub, allas muscular action and alleviates pain, the great qualities of opium, which demonstrate it to be one of the most powerful and certain sodatives. It does not produce naugea, costvenes or irritation



the then in it went degree as the Oficen .

following experiments

Experiment: 1.

In my france was follow attacked. It four where freder book 12 in a mente, a gave a fill watermany 12 of a sam of Laborarium. By all when the his freder, hardly and officed was franchy freefalls.

ay resement 2 nd

Having when a slight breakfast, and latter very measure exercise until Mediche thick a feel untaining the grows of the few vactorarium. By altertine to my puber which beat 70 strokes in a minute the tottowing effects were preduced.



· Minutes

In. S. 16. 15. 26, 25. 21. 55. 11. 43. 3. 60.70 10. 72. 75. St. SI St. 11. bo be. 63.76,76 The paids not only morement in i coming in the first heat, live minutes, bur also in force and fuilness. which gradually subsected as the superigion of such on the men wine be un to take elect in 30 minutes after of land taken it is fait a slight in te nation to surpe, which continued for some time und wallering disappeared. I had a right pain in my hour dwing the remainder it the day, but being subject to the hadache so some time precious, d'acre. not determine, whather is was produced by the xactuca ween I had later is not Experiment- 3rd

Hour the same line in the med day,



I it was on the day previous, in to I news of the Lactucarium in fully By allention to my pulse the fellowing effects were provided pulse to Minutes

is my sellow thereters, b. boment oped 18 I came is a rope of the intertura inclusion in municion as secrete by b' bundance. By attention to has pulse who is lead '3 in a mount, they observe of feets were produced - Missely

To. 76. 75. 81. 80 "9. 74 69 06 62 62



from this time his pulse rose gradually to its material standard. I good deal of uncertainty attended this experiment. I formed if the was presently ever was presently some accounted, but when projectly state, his pulse was unusually store and full.

Experiment of the

My Preceptor Thomas Hanner M. E. a former oraduate of this Uniconsity, feeling all the symplomy of an acute Caterral rapidly after which, with 3 grains of the instrument and mund alty which to bed. It produced a pensurus of our through the whole system, and was of a cound sleep, In the course of 4n 5 hours, when he arose, the cotor hat symplemy were exchanged for those following the was of medius, which soon disappended and life him he from disease. This was done in initation of the practice of English, who is secommenty

24 Judanum, under similar circumstanas. This Heriment was completely succeptub.

Doct lose